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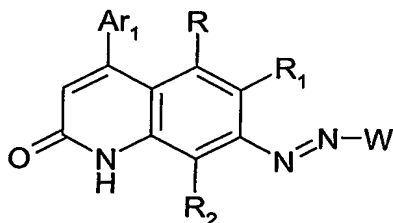
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(54) Title: MONOAZOQUINOLONE PIGMENTS, PROCESS FOR THEIR PREPARATION AND THEIR USE



(1)

(57) Abstract: Monoazoquinolone pigments which, in one of their tautomeric forms, correspond to formula (1), wherein W is unsubstituted or substituted C<sub>6</sub>-C<sub>24</sub>aryl or unsubstituted or substituted heteroaryl or is a radical of formula (1a), wherein Ar<sub>2</sub> is unsubstituted or substituted C<sub>6</sub>-C<sub>24</sub>aryl or unsubstituted or substituted heteroaryl, Ar<sub>1</sub> is unsubstituted or substituted C<sub>6</sub>-C<sub>24</sub>aryl or unsubstituted or substituted heteroaryl, R, R<sub>1</sub> and R<sub>2</sub> are each independently of the others hydrogen, C<sub>1</sub>-C<sub>6</sub>alkyl, halogen, cyano, CF<sub>3</sub>, nitro, NR<sub>3</sub>R<sub>4</sub>, COOR<sub>4</sub>, NR<sub>4</sub>COR<sub>3</sub>, COO<sup>+</sup>X<sup>-</sup>, COR<sub>4</sub>, OR<sub>4</sub>, SR<sub>3</sub>, SO<sub>2</sub>R<sub>3</sub>, SO<sub>2</sub>NR<sub>3</sub>R<sub>4</sub>, SO<sub>3</sub><sup>+</sup>X<sup>-</sup>, or C<sub>6</sub>-C<sub>24</sub>aryl which is unsubstituted or mono- or polysubstituted by R<sub>5</sub>, R<sub>3</sub> is C<sub>1</sub>-C<sub>6</sub>alkyl, or C<sub>6</sub>-C<sub>12</sub>aryl

which is unsubstituted or mono- or poly-substituted by halogen, hydroxy, OR<sub>7</sub>, cyano, nitro, SR<sub>7</sub>, NR<sub>6</sub>R<sub>7</sub>, COOR<sub>7</sub>, CONR<sub>6</sub>R<sub>7</sub>, NR<sub>6</sub>COR<sub>7</sub>, NR<sub>6</sub>COOR<sub>7</sub>, COO<sup>+</sup>X<sup>-</sup>, COR<sub>4</sub>, OR<sub>4</sub>, SO<sub>2</sub>R<sub>7</sub>, SO<sub>2</sub>NR<sub>6</sub>R<sub>7</sub>, SO<sub>3</sub><sup>+</sup>X<sup>-</sup> or by SO<sub>3</sub>R<sub>7</sub>, R<sub>4</sub> is hydrogen or has the meanings of R<sub>3</sub>, R<sub>5</sub> is hydrogen, C<sub>1</sub>-C<sub>4</sub>alkyl, halogen, nitro, NR<sub>7</sub>R<sub>8</sub> or OR<sub>7</sub>, R<sub>6</sub> is hydrogen or C<sub>1</sub>-C<sub>3</sub>alkyl, R<sub>7</sub> and R<sub>8</sub> are each independently of the other hydrogen; C<sub>1</sub>-C<sub>3</sub>alkyl; phenyl which is unsubstituted or mono- or poly-substituted by halogen, nitro, OR<sub>5</sub>, NR<sub>16</sub>R<sub>17</sub>; K<sup>+</sup>, Mg<sup>++1/2</sup>, Ca<sup>++1/2</sup>, Sr<sup>++1/2</sup>, Ba<sup>++1/2</sup>, Cu<sup>+</sup>, Cu<sup>++1/2</sup>, Zn<sup>++1/2</sup>, Mn<sup>++1/2</sup>, Al<sup>+++1/3</sup> or [NR<sub>9</sub>R<sub>10</sub>R<sub>11</sub>R<sub>12</sub>]<sup>+</sup>, wherein R<sub>9</sub>, R<sub>10</sub>, R<sub>11</sub> and R<sub>12</sub> are each independently of the others hydrogen; C<sub>1</sub>-C<sub>6</sub>alkyl; phenyl which is unsubstituted or mono- or poly-substituted by C<sub>1</sub>-C<sub>6</sub>alkyl, halogen, nitro, OR<sub>5</sub>, NR<sub>16</sub>R<sub>17</sub>; or benzyl which is unsubstituted or mono- or poly-substituted by C<sub>1</sub>-C<sub>6</sub>alkyl, halogen, nitro, OR<sub>5</sub>, NR<sub>16</sub>R<sub>17</sub>, and R<sub>16</sub> and R<sub>17</sub> are each independently of the other hydrogen or C<sub>1</sub>-C<sub>6</sub>alkyl, are suitable for the colouring of high molecular weight material and are distinguished by good fastness properties of the resulting colourations.

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